



LARC



Volume 50, Number 03

March 2010

New President's Message

I count it both an honor and a privilege to be elected president of the Acadiana Amateur Radio Association, Inc. I am a real new ham, having less than three years behind me. I know I will need lots of help and I feel confident that I will get all the help I need with so many outstanding and knowledgeable hams to rely on.

If I would have had to know code to pass my first test I would still be Jim's XYL. I have learned a lot about ham radio in the past two and a half years, but I have a long way to go for a long time yet.

I have been attending the General classes. We have wonderful instructors. I want to thank John W4JHC, Larry KE5KJD, Archie W5AG, Nick K5QXJ, and Jim N5NVP for the time they take to help us study for the test for our General Class Licenses. Thanks also to Rick N5RLM for helping, and he and Joy N5YCS for being

(continued on next column)



New 2010-2011 AARA Club Officers

At the February General Meeting, elections were held for club officers. This is the new slate for 2010-2011.

Our new officers will officially be installed at the March 20th meeting after the AARA Hamfest in Rayne.

Our new president will appoint a new Club Public Information Officer and a Youth Member at Large in the near future.

Title:	Name:	Call:
President	Irma Bookter	KE5UPK
Vice President	Archie Hill, Jr.	W5AG
Secretary	Paul Scallan, Sr.	K5VSH
Treasurer	Joy Breaux	N5YCS
Board Member	John Conniff	W4JHC
Board Member	Nick Romero	KE5MWX
Board Member	Calvin Begnaud	KD5JCT

ATTENTION - MARCH AARA MEETING

The AARA General Meeting in March will be held on March 20th, 2010 at 7:00 PM at the Red Cross Building, 101 N. Pat St., Scott, LA.

This meeting will be a club banquet requiring attendees to bring a covered dish of some kind. This will be more or less a fun event, very little business taking place other than a hamfest report, installation of new officers and the drawing for the handi-talki giveaway to the lucky member who attended meeting during the year (each attendance gave you a chance)..

NO VE TEST SESSION.

President's Message (continued)

there to welcome us on our first night of class.

The Rayne Ham Fest is coming up on March 12th and 13th. We need to all pitch in and do what we can to make it a great success.

If anyone of has any suggestions for events that we might participate in, let me know and we can consider it.

Ladies we need to come up with things that would be of interest to the lady hams also. Let's make it as interesting for the women as well as the men. I'm open for suggestions.

Be sure to check w5ddl.org website, it has all the information you will need to answer your questions.

Irma Bookter (KE5UPK)
AARA President Elect

President's Farewell Letter

Greetings Hams and readers of the LARC!

This is my last President's letter for 2010. I will be around for other duties: board member and general agitator for instance. I'm not too good on advice but I will always have an opinion. :-)

We will welcome our new officers the Saturday after the Rayne Hamfest. Mrs. Irma Bookter, KE5UPK will be our new president and I urge you to welcome her and give her help whenever she needs it.

There is at least one thing left hanging: The relocation of the 146.82 repeater. This will be done when the need arises.

I have many people to thank this year for helping me out.

(continued on page 2 column 2)

DATES TO REMEMBER

REGULAR MEETING

Saturday March 20th @ 7:00 PM
Red Cross Building - 101 N. Pat St.
Scott, LA

HAMFEST SCHEDULE

AARA Hamfest, Rayne, LA
March 12th & 13th, 2010
<http://www.w5ddl.org/hamfest/>

Local 2-Meter Nets

Sunday

Opelousas Area ARA Net 7:00 PM
146.820 Lafayette, LA

Monday

AARA Net 7:00 PM
146.820 Lafayette, LA

Tuesday

Acadiana ARES Net 7:00 PM
145.370 - 600 PL 103.5

Wednesday

Vermillion Parish ARES Net 8:00 PM
147.060 Abbeville, LA

Friday

HEAL Net 1st & 3rd Fridays Only 1:00 PM
146.820 Lafayette, LA

AARA OFFICERS 2010-2011

President - Irma Bookter KE5UPK
ilafle@bellsouth.net

Vice Pres. - Archie Hill W5AG
Secretary - Paul Scallan K5VSH
Treasurer - Joy Breaux N5YCS

BOARD MEMBERS

John Cuniff - W4JHC
Calvin Begnaud - KD5JCT
Nick Romero - KE5MWX
Public Information Officer
Dagmar Whittemore - KE5CGN
QSL Manager

Roland Guidry - NA5Q
Newsletter Editor

Herman Campbell - KN5GRK
337-234-5364 - kn5grk@w5ddl.org

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P. O. Box 51174
Lafayette, Louisiana 70505-1174

Regular meetings 1st Thursday of
each month at 7:00 p.m. at the
American Red Cross Building
101 North Pat Street Scott, LA

Mike Flanagan KE5AWZ - SK

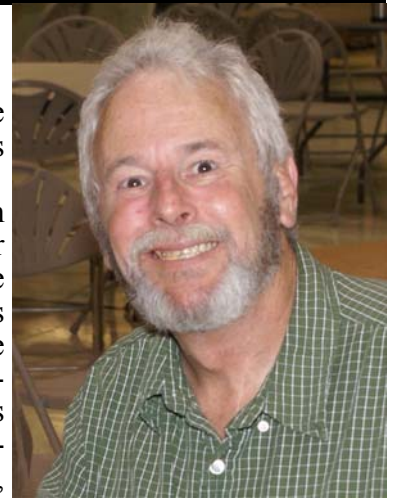
It is with deepest sadness that another one of our amateur radio operators in our area has become a Silent Key.

Mike Flanagan KE5AWZ was well known on all the repeaters in the Acadiana area far and wide. Mike was a residence of Sunset. He died on Thursday, February 11, 2010, at his residence in Sunset, LA at the age of 57. He attended USL for 2 years. Michael's occupation was a carpet and flooring installer. He was also a licensed Ham Radio Operator. He enjoyed fishing and spending time in Grand Isle, music and playing his guitar, and speaking to friends on his radio. He will be sadly missed by all who knew and loved him.

Survivors include his wife, Josie Lea Wyatt Flanagan of Sunset, one son, Patrick Michael Flanagan of Spokane, WA, one daughter, Celeste Flanagan of Sunset, one brother, H.J. Flanagan of Prairie Ville, LA, and one sister, Sharon Flanagan of Baton Rouge.

Funeral services were held on Monday, February 15th at 11:00 Am at the St. Charles Catholic Church in Grand Coteau, LA and interment held at the St. Charles Cemetery in Grand Coteau.

Mike was involved with our Cajun Band that was to play at the AARA Hamfest in March. Music was one of his great loves. Please remember Mike and Family in your prayers.



President's Farewell Letter (continued from page 1 column 2)

First on the list is Dick Melcher, WA6MDI who taught me the ins and outs of repeaters and who has almost single handedly taken care of the 147.04 repeater. Thanks, Dick!

Also Rick Breaux, N5RLM and Joy Breaux, N5YCS who are the financial, legal, historical and "anything else you can think of" backbone of our club. When ever I stumbled on procedure or protocol, Rick or Joy were always there to straighten things out.

To Calvin, KD5JCT for taking care of Amos, to Danny KD5JSM and Cathy KD5TJZ for hosting Field Day and for providing a home for AMOS, our tower and our storage building.

Nick Pugh, K5QXJ for his help on all repeater projects and for being the inspiration and spirit of the Children's Museum of Acadiana. Nick provided the classroom and has been instrumental in putting on the General Class course at New Horizons.

To Roland, NA5Q who takes on the responsibility and puts on a marvelous Hamfest every year.

To all of our VE's too numerous to mention individually - thanks for your great work. To our officers and board members - thanks. I'll be around to help.

Larry KE5KJD and Sandy KE5KJF for helping out with the Cajun Cup and just about everything else we do as a club. Larry for teaching much of the general class license course. He has impressed me (once again) with his depth of knowledge about our science and hobby. Thanks.

Lastly to Mr. Herman Campbell - KN5GRK. The AARA would not be the same without you Mr. Herman! You do much more than anyone else and I salute you for your efforts on behalf of our club and our hobby.

(continued on page 3 - top of page)

President's Farewell Letter (continued from page 3 column 2)

Finally, thanks to all the members of AARA, and especially to the new hams who will soon begin to take over when we old folks can no longer transmit.

To everyone else that deserves mention and I have mistakenly omitted: Thanks.

Radio is one of the oldest of the "modern" sciences. But it is constantly renewing itself - constantly changing. Keep your knowledge up to date and your finals warm. Get the word out!

One final goodbye and a salute to our silent keys: You are not forgotten and you are still heard.

73 - John, W4JHC

The ZS6BKW Dipole Antenna

by Larry LeBlanc KE5KJD (club member)

This short article will describe a simple dipole antenna SYSTEM which will work very well for both the new and experienced ham. It tends to have low SWR on many amateur bands and low losses over most of these bands.

In the mid-1980s, Brian Austin (ZS6BKW) ran computer analysis to develop an antenna System that, for the maximum number of HF bands possible, would permit a low Standing Wave Ratio (SWR) without an antenna tuner to interface with a 50-Ohm coaxial cable as the main feed line. He identified a range of lengths which, when combined with a matching ladder line length, would provide this characteristic. (See Figure 1).

According to an acknowledged expert in computer antenna design and modeling, L. B. Cebik:

"Of all the G5RV antenna system cousins, the ZS6BKW antenna system has come closest to achieving the goal that is part of the G5RV mythology: a multi-band HF antenna consisting of a single wire and simple matching system to cover as many of the amateur HF bands as possible."

So, what is this "magic" antenna? It consists of a simple dipole, either in a flat top or inverted V form, fed with a measured length of ladder line (300, 400, or 450 ohms) connected to a length of coax back to the ham shack and transceiver. In most cases, it does not require a tuner to match the antenna system to the transceiver. It can handle full legal power.

In the full article posted on the AARA intranet, there is a full analysis of this antenna in a practical environment which shows graphically how the antenna will match under different conditions and the resulting antenna patterns you can expect on the different bands. It also gives construction details so you can make your own. All analysis used the free "MANA-Gal" program.

This antenna is being actively used by KE5KJD, where comparisons have been made with three other antenna systems. A 6 band vertical, a 2 Band (80/40) vertical, and a 148 ft long dipole. About 20 stations were logged on each band and signal strengths (S-units) measured using an antenna switch to measure and verify S-unit measurements. Here is the summary of those results.

Switched Antennas	Cost	Averaged S-Units By Band		
Antenna	Total	80 Meters	40 Meters	20 Meters
Butternut 80/40 Vertical Dipole	~\$350	10	9.5	5.6
Hustler 6BTV Trap Vertical	~\$300	6.9	9.9	9.8
ZS6BKW Dipole (94 ft)	~\$70	10	9.2	8.5
80/40 Dipole W5DXP (148 ft)	~\$80	11	8.2	5.7

As can be seen above, The ZS6BKW performs quite well on all three bands. The other antennas perform as expected, with some advantages of each based on their intended use. Not shown above is that the 6BTV vertical antenna nearly always has the advantage on a DX contact due to its excellent ground radial system (>100 radials) and low angle of radiation. Also not shown is the verticals had slightly higher noise levels, making copy of weak signals difficult. No tuner was used to obtain above results. Frequencies used within each band were chosen at random.

(continued on page 4 column 1)

The ZS6BKW Multi-Band Antenna System

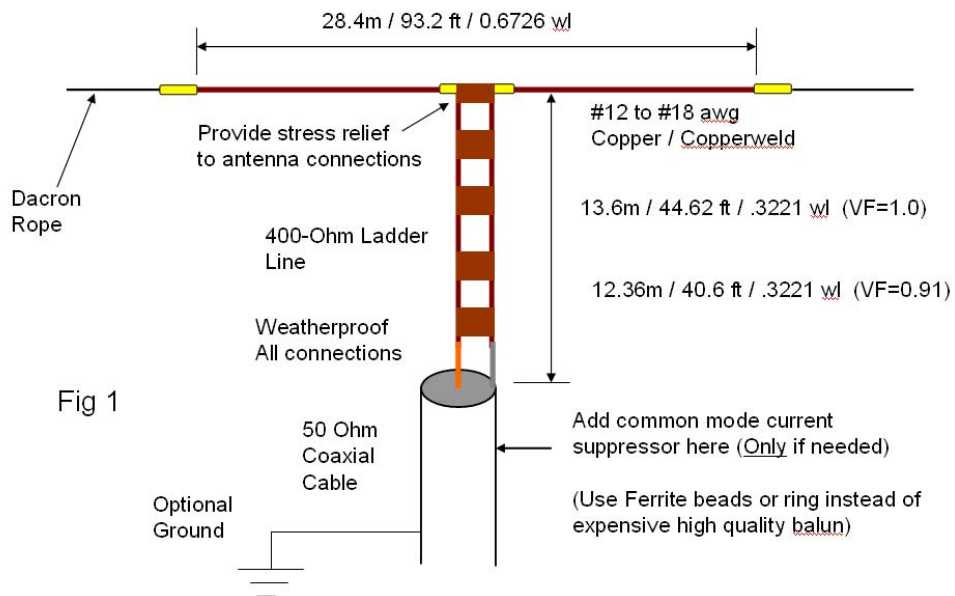
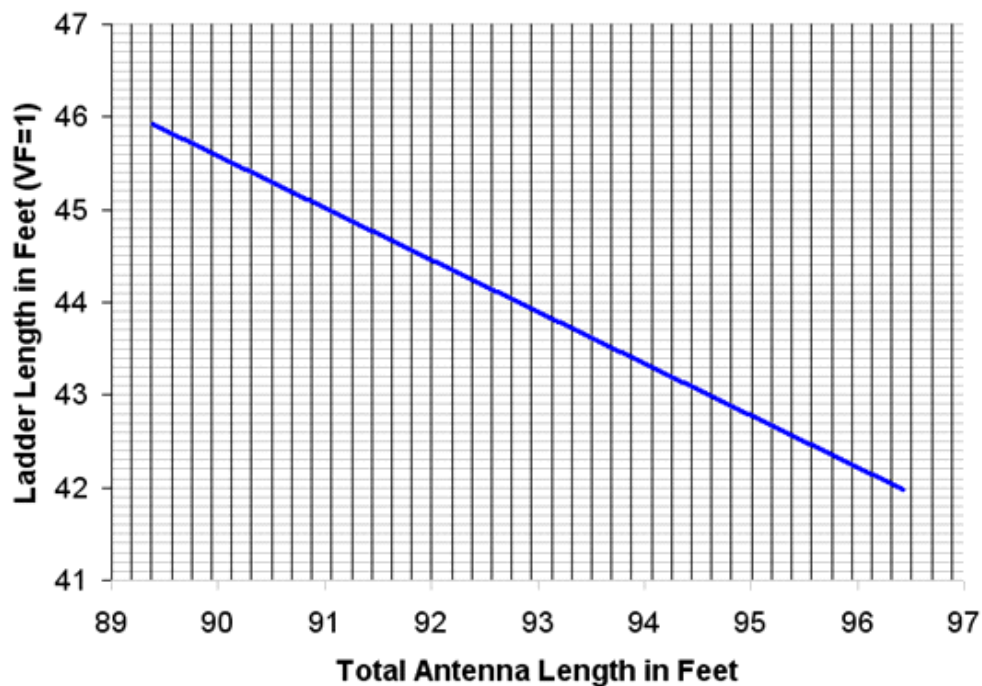


Fig 1

ZS6BKW Antenna/Ladder Feed



Here is why I like this antenna:

1. Has low SWR in several ham bands at the matching point at the end of the ladder line resulting in lower losses in the coax cable. (I have a 200 ft. run from the antenna to the radio making this crucial.)
2. Can be operated without an out-board tuner on at least 5 bands.
3. Has both simplicity and low cost. (Good emergency antenna.)
4. Will work with one central support and two lower supports (Inverted Vee) OR two end supports (Flat Top) on a typical city lot.
5. It retains the high-strength of the antenna wire, allowing the antenna to help support the central mounting pole. (No heavy

Coax or inline traps in the antenna line like the "W5GI" or "W3DZZ".)

6. Antenna patterns are "reasonable" for local or DX work.
7. Can be operated on non-optimum bands with an external tuner.
8. A multi-band dipole allows better utilization of available space, fewer antennas and coax runs, and means you can put the extra money in high quality low loss cables, or to increase the height to 30-60 ft.
9. One can also erect a 80/40 or 160/80 wire from the same support, at about 90 degrees to the ZS6BKW to keep it stable and free standing in moderate winds. This fills in the performance on the low bands. (I use the W5DXP dipole for this).
10. Does not REQUIRE a matching balun or choke, either at the antenna or at the junction of the ladder line and coax. However, if you do have RF on the coax in your installation, you can put a choke at the connection between the feedline coax and the ladder line.
11. It will handle maximum legal amateur power without problems.

Galen Wilson, KF5BET (club member) is planning on putting up a version of this antenna. Let us know how it works Galen.

Dues Time

It's that time of the year when you should think of renewing your AARA club membership for the 2010-2011 year. You can go to our club webpage at: <http://www.w5ddl.org> and click on "Membership Application" to download a Adobe Acrobat .pdf form.

Fill it all out and mail it in with your dues.

February 2010 AARA MEETING MINUTES (edited)

The meeting was opened by the outgoing President John W4JHC.

The opening prayer was by the outgoing vice-president Herman KN5GRK.

The Pledge of Allegiance was recited by all.

There were 40 members and 1 visitor in attendance. 11 people tested for new licenses or upgrades. There were 2 upgrades to Extra Class, 1 upgrade to General Class and 5 new hams in the Technician Class.

Minutes: The January Minutes were not read, due to being posted in the February 2010 LARC Newsletter.

Financial Report: Any club member wanting a Financial Report for the Month of January 2010 can contact Joy Breaux N5YCS, Treasurer for a copy. Her e-mail is: n5yys@w5ddl.org. The report was given at the February meeting and a vote was taken to accept the report, and the Ayes were in the majority.

OLD BUSINESS:

Nick K5QXJ and Charlie KI5XP were not in attendance. Therefore, the move status was not given for the 146.82 MHz repeater. The auto-patch is also not working.

John W4JHC mentioned that the General Class school at New Horizons on Tuesday nights is going very well. He also mentioned that the dual band handi-talkies are going to be \$88.00 in lieu of \$50.00 as previously thought.

NEW BUSINESS:

Roland NA5Q re-iterated that the AARA Ham Fest will be on March 12th & 13th in Rayne, LA. He gave the status of the vendors, tickets, crawfish, etc. Everything seems to be running as well as planned at this point.

Election of 2010 Club Officers and Board Members:

Ms. Irma Bookter KE5UPK, wife of Jim N5NVP, was elected as President. She will be the first female president of the club. Archie W5AG was elected as Vice President, Paul K5VSH was re-elected as Secretary, and Joy N5YCS was re-elected as Treasurer.

John W4JHC, Nick KE5MWX, and Calvin KD5JCT will serve as Board Members.

The Club President will appoint a Youth-Member-at-Large, Club Public Information Officer and Newsletter Editor at the time he/she is installed as President.

Jim N5NVP mentioned that the State of Louisiana has 36 Active Affiliated Ham Clubs, with 9 Special Service Clubs and 23 Non-Active Affiliated Ham Clubs.

Joy N5YCS mentioned that the March Meeting will be our annual banquet (a covered dish affair). New Officers will take office and the meeting will be on SATURDAY, March 20th, following the AARA Hamfest in Rayne on March 12 & 13.

DOOR PRIZES:

Herman KN5GRK, gave out the following door prizes:

1. Phoebe KC5VRN-----Bath Soap Bouquet.
2. Jack KE5LAY-----2 small Christmas bears.
3. Ed WA5TNK-----A ladies bagged gift.
4. Mel WD5CAE-----A unknown ladies wrapped gift.
5. Larry KE5KJD-----2 small Christmas bears.
6. Randy N5MLJ-----A Salvation Army cleaning kit.
7. Fred W5MLE-----2 small Christmas bears.

Respectfully Submitted

Paul D. Scallan, Sr. K5VSH
Secretary, AARA

February VE Test Results

The February VE test session had eleven that tested, the following are the results of the test session and the calls they received.

Brian M. StCyr of Opelousas passed the Technician Class and received the call KF5EVX.

Travis P. Israel of Opelousas passed the Technician Class and received the call KF5EVW.

Jacob J. Soileau of Washington passed the Technician Class and received the call KF5EWA.

Michael S. Jones of Krotz Springs passed the Technician Class and received the call KF5EVZ.

Jaeden A. Wallace of Lafayette passed the Technician Class and received the call KF5EVY.

Kim S. Boudreaux of Loreaville passed the General Class and received the call KF5DKI.

Kirk N. Brown N1TVF of New Roads upgraded to Extra Class.

Stephen Y. Wyatt N5HVQ of Lafayette upgraded to Extra Class.

The VE's during this session were:

Greg Dolan K5LFT
Archie Hill W5AG
Mitch Romero KB5TWL
Rick Breaux N5RLM.

WELCOME NEW AARA MEMBERS

The Acadiana Amateur Radio Association, Inc. would like to welcome the following new club members.

Jaeden Wallace—KF5EVY
Al Trautman—K5MZG

The General Classes and Technician Classes are still under way, maybe in the next issue of the LARC we will have some new club members to report.



The 50th Acadiana Hamfest 2010 March 12 & 13, 2010 2010 ARRL Louisiana State Convention Coming soon - Mark your calendars!



The Acadiana Amateur Radio Association will sponsor its 50th Acadiana Hamfest 2010, at the Rayne Civic Center on March 12th & 13th, 2010. A Crawfish Boil and Fais-Do-Do will be held on Friday, March 12th, due to the tremendous success of this event in previous years. Get your order in by February 20th. Gumbo will be served for those folks not wanting crawfish. Roland Guidry NA5Q is again our Hamfest Chairperson & Webmaster. The webpage has been updated. A flyer with a pre-registration form and schedule can be downloaded to be printed out & mailed in to save time and guarantee swap tables and RV availability. You can check out our website for more info and updates at:

<http://www.w5ddl.org/hamfest/>

Come out and have a "eyeball contact" with those you meet on the radio. It is your attendance that makes a hamfest a success. We appreciate your support over the 50 years it has been in existence.

Schedule

Friday, March 12

0900 Dealer & Flea Market setup
1700 – 2000 Hamfest Opens to General Public
1800 Crawfish Boil (other foods available for those who do not eat crawfish).
1900 Fais-Do-Do – Roland K5EUO, Carle KD5TCJ, and others will provide French music via "Jam" session – Bring your instruments – Enjoy Dancing.

Saturday, March 13

0700 Dealer & Flea Market setup
0800 Hamfest re-opens to General Public
0830 Bingo (for ladies and children)
0830 DXCC, WAS and VUCC Card checking
0845 ARRL VE Testing – Bring copies of ID & CSCE / FCC License and fees
0900-1000 AMSAT Forum
1000-1100 Louisiana Contest Club Forum
1100-1230 ARRL Forum with special HQ quest Norm Fusarom Club Coordinator, Micky Cox, Delta Division Director and Gary Stratton, Louisiana Section Manager
1100 Fox Hunt (if enough participants)
1230-1300 Louisiana LCARC immediately following ARRL Forum
1300 Grand prize drawings
1400 Hamfest closes

Prizes

Grand Prize: ICOM 718 – HF Transceiver (Need not be present)
Second Prize: ICOM 208H – 2 Meter Mobile (Need not be present)
Third Prize: ICOM V8000 – 2 Meter Mobile (Need not be present)
Fourth Prize: ICOM V8 Sport – 2 Meter HT (Need not be present)

March 2010 Special Events & Contests

March 6 & 7	ARRL International DX Contest-Phone
March 6	High Speed CW Contest-CW
March 13	W4OT-107th Anniversary of Pelican Island National Wildlife Refuge.
March 13	NI6IW-USS Midway (CV-41) Museum Radio Operations Room. Medical Corps Birthday 1871 and Neil Armstrong making 7 orbits in Gemini 8 1966.
March 14	North American RTTY Sprint-Digital
March 27 & 28	CQ WPX SSB Contest-Phone
March 20	W4BKM-28th Annual Cherry Blossom Festival, Macon, GA.

You can find more listings of Contests and Special Event Stations in the March 2010 issue of QST on pages 78 and 93.



2010 BIRTHDAYS

3/03	ED	KC5MMG
3/13	GRANT	KF5CNU
3/15	JOHN	KE5EEO
3/15	LOUIS	KF5EID
3/19	TERRY	N5QWA
3/27	MAUREENA	KB5SMX
4/06	ARNOLD	KE5JXC

Some members failed to put their birthdays on their applications for renewal / membership applications, this is why some may not be on the list.

New ARRL Web Site Coming Soon

After more than two years of planning, designing and writing, we here at the ARRL are eagerly anticipating the launch of the new ARRL Web site. We've been able to make the online experience easier for our members -- from the online store, to registering for a class, to finding a club -- plus we've created a new, enhanced member profile with many more options available. We've made improvements with you in mind, making sure that we've created the easiest, most enjoyable online experience possible. The new Web site will be available at the end of February.



DAYLIGHT SAVINGS TIME

Don't forget to set your clocks up one hour on:

SUNDAY—MARCH 14

February 2010 ACADIANA AREA 2 METER NET REPORTS

NET	SESSIONS:	TOTAL CHECK-INS:	TOTAL TRAFFIC:	TOTAL TIME: Minutes	Net Manager
OAARC Net - Opelousas Area Amateur Radio Club	4	33	1	76	N5LRZ Ray
AARA Monday Night Net	4	69	0	128	KF5CNU Grant
Acadiana ARES Net	4	18	0	69	N5LRZ Ray
Vermillion Parish ARES Net	4	37	0	69	KE5JXC Arnold
HEAL Net *(M=Medical G=Guest)	2	* M 6 / G 7	0	38	KE5JKD Larry

We do not quit playing because we grow old, we grow old because we quit playing. - Oliver Wendell Holmes

New Louisiana Traffic Manager Appointed

Please help me in welcoming Carlos Ingram KB5YEG of Rayville, LA, as our new Louisiana Section Traffic Manager (STM). He has also been appointed Louisiana Traffic Net Manager (LTN).

Please send Carlos your Net Reports, Public Service Honor Roll (PSHR) reports and Station Activity Reports in the future. His email address is: kb5yeg@arrl.net or carlos-ing@hughes.net. His contact information is good on QRZ.

Thanks to Carlos for taking on this work for the Section.

ARRL Louisiana Section
Section Manager: Gary L. Stratton, K5GLS
k5gls@arrl.org

ARRL Field Day : 2010 Field Day Packets Now Available

It's that time of year again -- time to start gearing up for ARRL Field Day, June 26-27, 2010! ARRL's flagship operating event -- always held the fourth full weekend in June -- brings together new and experienced hams for 24 hours of operating fun. Field Day packets are now available for download and include the complete rules (including changes for 2010), as well as other reference items such as forms, ARRL Section abbreviation list, entry submission instructions, a Frequently Asked Questions section, guidelines for getting bonus points, instructions for GOTA stations, a kit to publicize your event with the local press and more.

<http://www.arrl.org/contests/forms/fd-2010-packet.pdf>



Note: The Acadiana Amateur Radio Association, Inc. has booked the big pavilion in Gossen Memorial Park in Rayne, Louisiana (same place as we have used for the last few years) for our 2010 Field Day exercise. We will need volunteers and operators to help out with this event.

LARC Editors Comments:

Many of you may not know that part of my services is to keep our area ham radio operators informed by my "e-mail reflector" and our club newsletter "LARC". I get quite a few e-mails from people with equipment for sale, trade, or items they are looking for. I have no problems sending out listings, however I would like for the listings to be as specific as possible. Describe your items the best as you can, please list a asking price and include a telephone number, e-mail address or a mailing address. The reason I am requesting this information is that many readers contact me asking questions about the items of which I know nothing about, all I get is what is sent to me. I do not have time to edit or answer these inquiries. I usually send out my "For Sale/Wanted" e-mails on Fridays.

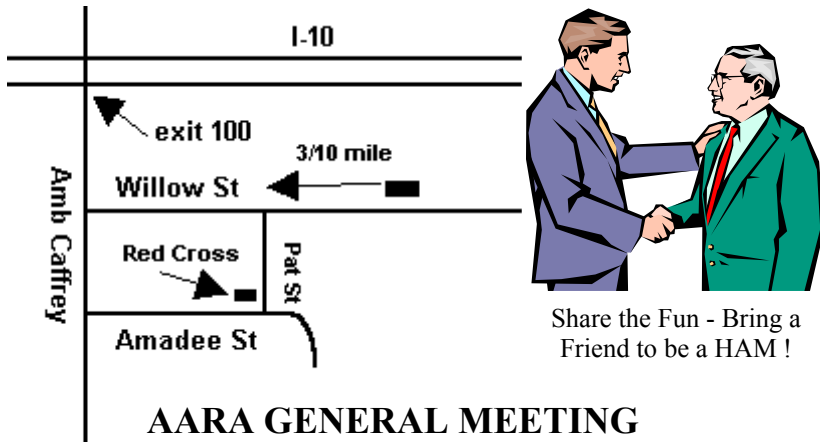
Also, after the AARA Hamfest, I will be updating my e-mail lists. Past members who have not paid their club dues will be removed from my "Members" contact folder and added to my general "Ham Radio Operators" folder.

Please notify me if you have changed your e-mail address or call sign. If you are a ham radio operator and would like to be included on my reflector mailing list, please e-mail me at kn5grk@lusfiber.net and I will gladly do so, no charge hi hi !

Herman Campbell KN5GRK
LARC Editor

Acadiana Amateur Radio Assoc., Inc.
P. O. Box 51174
Lafayette, LA 70505-1174

Website: <http://www.w5ddl.org>



AARA GENERAL MEETING
Saturday March 20th, 2010 - 7:00 PM
VE Testing @ 6:00 PM
Red Cross Building, 101 N. Pat St., Scott, LA
Lunch Bunch
Golden Corral - Amb. Caffery - Lafayette, LA
Check 146.820 - repeater for info.

COMPLEMENTARY
ISSUE

Paul's Etouffe' (His Favorite)

(Submitted by: Paul Scallan, Jr. K5VSH)

- | | |
|--|---|
| 1-1/2 cups butter, divided | 1 teaspoon cayenne pepper |
| 1/2 cup flour | 3/4 teaspoon garlic (smashed & diced) |
| 2 small onions, finely diced | 3 tablespoons chicken bouillon |
| 1/2 cup finely diced bell pepper | 1 quart water |
| 3/4 cup finely diced celery | 2 pounds crawfish tails |
| 1/4 cup chopped green onion <u>bottoms</u> | 1/2 cup chopped green onion <u>tops</u> |
| 2 tablespoons paprika | 2 tablespoons chopped fresh parsley |

Combine 1/2 cup butter and 1/2 cup flour in a small saucepan to make a roux. Stir while cooking for approximately 3 minutes over medium-high heat; reserve and keep warm. In a 4-quart saucepan, add 1/2 cup butter, onion, bell pepper, celery, and green onion bottoms; cook over medium heat while stirring for 8 minutes. Add paprika, peppers, garlic, and chicken bouillon. Cook 2 more minutes while stirring. Add 1 quart water, and bring to a boil for 5 minutes. Add reserved roux, stirring well with wire whip. Reduce heat to medium, and boil for 3 minutes. Add crawfish, onion tops, and parsley; then stir in last 1/2 cup butter. Turn heat to low until ready to serve. Serve over hot steamed rice.

Send your favorite recipes to:
Herman KN5GRK
kn5grk@lusfiber.net



FCC Information Service

Toll Free (WATS) for Amateur Radio license inquiries about new/ vanity call signs: 888-225-5322. This will connect you the FCC National Call Center, handled by the FCC's Consumer Information Bureau. Amateurs having ULS problems or questions should contact the FCC's ULS Technical Support staff at: 202-414-1250 or:

ulscomm@fcc.gov.

FCC Website:

<http://wireless.fcc.gov/uls/>

New callsign information can also be obtained from the ARRL/ VEC at 860-594-3000.

<http://www.arrl.org/arrlvec>

The mailing address to the FCC is:

Federal Communications Commission, 1270 Fairfield Road, Gettysburg, PA 17325-7245